

Sensors for pH Measurement

Chem

Energy

Pharm

Food

MEMOSENS



SE 552 Memosens pH Sensor

Low-maintenance and precise pH sensor with integrated temperature detector, CIP capable, steam sterilizable and autoclavable, for an extensive range of applications at moderate pressures, digital, with Memosens technology

Liquid-electrolyte reference system with factory prepressurization. Permanent slight outflow of electrolyte significantly reduces the typical junction problems. Excellent measurement performance under the most diverse process conditions.

Applications

Chemical, pharmaceutical industry, biotechnology, food and beverage industry

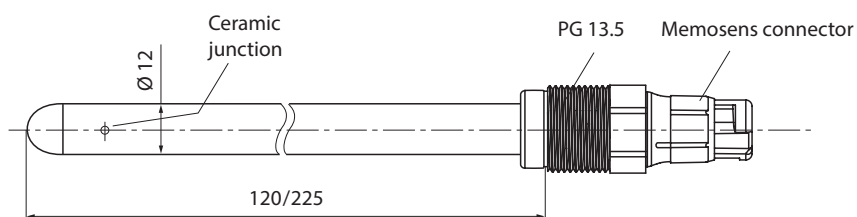
Facts

- Perfect galvanic isolation thanks to Memosens technology
- No influence of humidity in the connector
- Precalibration in the lab
- Digital data transfer
- Integrated sensor diagnostics
- High accuracy
- Very high temperature range
- Integrated temperature detector
- Self cleaning due to prepressurization
- Silver ion trap
- CIP-capable
- Steam-sterilizable
- Autoclavable

Specifications

pH:	0 ... 14
Temperature:	0 ... 100 °C (140 °C for sterilization, non Ex)
Pressure, relative:	-1 ... +4 bar
Temperature detector:	NTC 30 kohms
Sensor material:	Highly alkali-resistant glass
Reference system:	Ag/AgCl, prepressurized gel electrolyte, silver ion trap
Junction:	Ceramic (1 x)
Length:	120 mm / 225 mm
Process adaptation:	PG 13.5
Sensor connector:	Memosens
ATEX marking:	II 1G Ex ia IIC T3/T4/T6

Dimension Drawing



All dimensions in mm

Product Range	Length	Order No.
SE 552 pH sensor	120 mm	SE 552X/1-NMSN
	225 mm	SE 552X/2-NMSN

Accessories	Length	Order No.
Memosens cable	3 m	CA/MS-003NAA
	5 m	CA/MS-005NAA
	10 m	CA/MS-010NAA
	20 m ^{*)}	CA/MS-020NAA
Memosens cable, Ex	3 m	CA/MS-003XAA
	5 m	CA/MS-005XAA
	10 m	CA/MS-010XAA
	20 m ^{*)}	CA/MS-020XAA

CaliMat Buffer Solutions (20 °C)	Quantity	Order No.
pH value 2.00 ± 0.02	250 ml	CS-P0200/250
	250 ml	CS-P0400/250
	1000 ml	CS-P0400/1000
pH value 4.00 ± 0.02	3000 ml	CS-P0400/3000
	250 ml	CS-P0700/250
	1000 ml	CS-P0700/1000
pH value 7.00 ± 0.02	3000 ml	CS-P0700/3000
	250 ml	CS-P0900/250
	1000 ml	CS-P0900/1000
pH value 9.00 ± 0.02	3000 ml	CS-P0900/3000
	250 ml	CS-P1200/250
	1000 ml	
pH value 12.00 ± 0.05	3000 ml	
	250 ml	
	1000 ml	

MemoSuite		Order No.
Management software for Memosens sensors	Basic version (calibration)	SW-MS1400-B
	Advanced version (calibration, diagnostics, documentation)	SW-MS1400-A

^{*)} Greater lengths on request